**Appendix 1:** Categories and content of the Electronic Incident Report module embedded within the (removed for blinded review) Concussion (C3) application

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| Red flags | ABCs  Evidence of spine injury  Pupil & visual function  Weakness, numbness, tingling  Seizure activity  Severe/worsening headache  Severe imbalance  Signs of skull/facial fracture | Loss of consciousness  Repeated Emesis  Altered Mental Status  Amnesia  Disorientation  Combativeness  Glasgow Coma Scale  Maddock’s questions |
| Witness of Injury | Athletic Trainer  Injured Athlete  Teammate  Coach | Referee/Official  Parent  Team Physician  Other |
| Date and time of injury |  |  |
| Worst Initial symptoms | Headache  Pressure in head  Neck pain  Nausea/vomiting  Dizziness  Blurred Vision  Balance problems  Sensitivity to light  Sensitivity to noise  Feeling slowed down  Feeling in a fog  “Don’t feel right” | Difficulty concentrating  Difficulty remembering  Fatigue/low energy  Confusion  Drowsiness  More emotional  Irritability  Sadness  Nervous/anxious  Ringing in the ears  Numbness and tingling |
| Actions Taken | Removed from play  Continued to playa | Sent to emergency department  Returned to playb |
| Injury Demographics | Sport and position  Venue (practice or game)  Surface playing on  Mechanism of injury  Location of impact | Location of pain  Protective equipment worn  Other injuries sustained  Additional Clinical notes |

Abbreviations: ABC’s refer to “Airway, Breathing, Circulation” as per first responder training;

aAthletes classified as “continued to play” did not undergo an onsite exam. Supplemental documentation was used to further stratify those who continued to play due to a delayed symptom onset versus delayed reporting of the injury to medical personnel.

bAll athletes classified as “returned to play” underwent an exam by personnel onsite and were permitted to return to play. Supplemental documentation was used to determine whether the athlete was cleared by the athletic trainer or if no athletic trainer was onsite at the time of injury (ie: cleared by a coach or other non-medical personnel).